

| L Number | Hits | Search Text   | DB   | Time stamp       |
|----------|------|---|--|------------------|
| 1        | 1    | (( sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromide bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (mol molar) adj3 (fraction percent percentage "%") same (rare adj earth lanthanoid)   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 12:18 |
| 8        | 1    | (( sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromide bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium yttrium,lanthanum cerium praseodymium neodymium, promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutetium) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (mol molar) adj3 (fraction percent percentage "%") same (scandium yttrium,lanthanum cerium praseodymium neodymium, promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutetium rare adj earth lanthanoid) | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 12:22 |

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| 15 | 1 | (( (sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium yttriumlanthanum cerium praseodymium neodymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutetium) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (mol molar) adj3 (fraction percent percentage "%") same (scandium yttriumlanthanum cerium praseodymium neodymium promethium samarium europium gadolinium terbium dysprosium holmium erbium thulium ytterbium lutetium rare adj earth lanthanoid)   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 12:30 |
| 22 | 1 | (( (sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (mol molar) adj3 (fraction percent percentage "%") same (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu rare adj earth lanthanoid) | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 13:24 |

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| 29 | 3  | (( (sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (cesium cs) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95" "100")                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 12:46 |
| 36 | 15 | (( (ceramic alumina sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (cesium cs) with (halide halogen fluoride fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95" "100") | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 12:59 |

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| 50 | 15 | (( ceramic alumina sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95" "100")   | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 13:05 |
| 43 | 5  | (( ceramic alumina sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (mol molar) adj3 (fraction percent percentage "%") same (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu rare adj earth lanthanoid) | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 13:12 |

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| 57 | 15 | <p>(( (ceramic alumina sapphire polycrystalline adj "Al.2 O.<sub>sub</sub>.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.<sub>sub</sub>.a") with ("80" "85" "90" "95" "100") and (( (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.<sub>sub</sub>.a") with ("80" "85" "90" "95" "100")</p> | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 13:30 |
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| 71 | 15   | ((ceramic alumina sapphire polycrystalline adj "Al.2 O. <sub>3</sub> ") and lamp.ti,ab. and mercury) and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R. <sub>sub</sub> .a") with ("80" "85" "90" "95" "100") (ceramic alumina sapphire polycrystalline adj "Al.2 O. <sub>3</sub> ") and lamp.ti,ab. and mercury | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2003/06/19 14:00 |
| 64 | 2062 |  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | 2003/06/19 13:20 |

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|----------------|--------------------|--|---|------------------|
| 155            | 2000               | (US-3558963-\$ or US-3564328-\$ or<br>US-4449948-\$ or US-4445073-\$ or<br>US-4445067-\$ or US-4442379-\$ or<br>US-4442378-\$ or US-4441049-\$ or<br>US-4437039-\$ or US-4435284-\$ or<br>US-4434385-\$ or US-4431945-\$ or<br>US-4427922-\$ or US-4422017-\$ or<br>US-4422007-\$ or US-4420708-\$ or<br>US-4419303-\$ or US-4418300-\$ or<br>US-4414318-\$ or US-4409522-\$ or<br>US-4409517-\$ or US-4405423-\$ or<br>US-4403171-\$ or US-4401913-\$ or<br>US-4401912-\$ or US-4400754-\$).did. or<br>(US-4396856-\$ or US-4396595-\$ or<br>US-4394580-\$ or US-4393100-\$ or<br>US-4390811-\$ or US-4388557-\$ or<br>US-4387067-\$ or US-4386050-\$ or<br>US-4382207-\$ or US-4382205-\$ or<br>US-4380714-\$ or US-4379982-\$ or<br>US-4376259-\$ or US-4374339-\$ or<br>US-4373146-\$ or US-4363998-\$ or<br>US-4362969-\$ or US-4361782-\$ or<br>US-4358717-\$ or US-4349764-\$ or<br>US-4345178-\$ or US-4344018-\$ or<br>US-4342939-\$ or US-4342938-\$ or<br>US-4342937-\$ or US-4340930-\$ or<br>US-4339686-\$).did. or (US-4338544-\$ or<br>US-4335330-\$ or US-4333032-\$ or<br>US-4325004-\$ or US-4322654-\$ or<br>US-4321503-\$ or US-4319157-\$ or<br>US-4316122-\$ or US-4308650-\$ or<br>US-4307315-\$ or US-4303848-\$ or<br>US-4298828-\$ or US-4291250-\$ or<br>US-4290097-\$ or US-4289991-\$ or<br>US-4287454-\$ or US-4287452-\$ or<br>US-4286190-\$ or US-4282462-\$ or<br>US-4281271-\$ or US-4281267-\$ or<br>US-4278916-\$ or US-4277715-\$ or<br>US-4277438-\$ or US-4272703-\$ or<br>US-4265950-\$ or US-4256988-\$).did. or<br>(US-4255642-\$ or US-4238173-\$ or<br>US-4233542-\$ or US-4233493-\$ or<br>US-4230964-\$ or US-4223986-\$ or<br>US-4223250-\$ or US-4216408-\$ or<br>US-4216178-\$ or US-4211758-\$ or<br>US-4210840-\$ or US-4210839-\$ or<br>US-4208618-\$ or US-4208614-\$ or<br>US-4206387-\$ or US-4205258-\$ or<br>US-4204137-\$ or US-4203049-\$ or<br>US-4198586-\$ or US-4197957-\$ or<br>US-4197480-\$ or US-4196374-\$ or<br>US-4193879-\$ or US-4191910-\$ or<br>US-4191907-\$ or US-4187445-\$ or<br>US-4185221-\$).did. or (US-4184101-\$ or<br>US-4182976-\$ or US-4182975-\$ or<br>US-RE30181-\$ or US-4180763-\$ or<br>US-4179777-\$ or US-4179640-\$ or<br>US-RE30165-\$ or US-4173730-\$ or<br>US-4172981-\$ or US-4171500-\$ or<br>US-4169875-\$ or US-4162430-\$ or<br>US-4162151-\$ or US-4161672-\$ or<br>US-4160930-\$ or US-4158153-\$ or<br>US-4156830-\$ or US-4156550-\$ or<br>US-4156265-\$ or US-4155025-\$ or<br>US-4152620-\$ or US-4152619-\$ or<br>US-4150321-\$ or US-4150317-\$ or<br>US-4147961-\$ or US-4147951-\$).did. or<br>(US-4145634-\$ or US-4143301-\$ or<br>US-4140938-\$ or US-4137484-\$ or<br>US-4137483-\$ or US-4135114-\$ or<br>US-4135110-\$ or US-4128789-\$ or<br>US-4123685-\$ or US-4122042-\$ or | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/06/19 13:23 |
| Search History | 6/19/03 2:52:54 PM | Page 70-\$ or<br>US-419682391-\$ or US-4109175-\$ or<br>US-4103200-\$ or US-4096088-\$ or<br>US-4002000-\$ or US-4002500-\$ or   |   |                  |

C:\APPS\east\workspace\app\19682391-\$.wsp US-4109175-\$ or  
US-4103200-\$ or US-4096088-\$ or  
US-4002000-\$ or US-4002500-\$ or

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| 161 | 11 | <p>((((( ceramic alumina sapphire polycrystalline adj "Al.2 O.sub.3") and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95" "100")) and (( (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (scandium sc yttrium Y lanthanum La cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)) and (cesium cs) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index CRI "R.sub.a") with ("80" "85" "90" "95" "100")) not mercury adj free</p> | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 13:30 |
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| - | 24   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and metal adj halide and (rare adj earth)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 16:49 |
| - | 1    | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and metal adj halide and (rare adj earth)) and molar adj (percent "%")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 16:50 |
| - | 1188 | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:40 |
| - | 1188 | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:40 |
| - | 0    | ("1317 and ceramic").PN.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:41 |
| - | 125  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:44 |
| - | 125  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:44 |
| - | 109  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:44 |
| - | 80   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp) and (mercury hg)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:49 |
| - | 74   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp) and (mercury hg) and (sodium na thallium tl magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)                      | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:53 |
| - | 41   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp) and (mercury hg) and (sodium na thallium tl magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)) and halide          | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:55 |
| - | 15   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp) and (mercury hg) and (sodium na thallium tl magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)) and halide) and "%" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:55 |
| - | 15   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp) and (mercury hg) and (sodium na thallium tl magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)) and halide) and "%" | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/24 18:56 |

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|---|----|--|---|------------------|
| - | 21 | (((((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na thallium tl magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)) and halide) and (percent "%")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 09:53 |
| - | 0  | (((((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)) and halide) and (percent "%")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 09:55 |
| - | 0  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra) and halide and (percent "%")   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 09:56 |
| - | 6  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra) and halide and (percent "%")   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 10:43 |
| - | 7  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (percent "%")   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 10:54 |
| - | 6  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (percent "%")) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 10:55 |
| - | 15 | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 10:55 |
| - | 13 | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 11:14 |
| - | 7  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth)) not (((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (percent "%")) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 10:59 |
| - | 5  | 5698948.URPN.  | USPAT                                       | 2002/10/25 11:14 |
| - | 2  | 5698948.URPN. and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide   | USPAT                                       | 2002/10/25 11:14 |
| - | 2  | (5698948.URPN. and ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide) and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 12:47 |

|  |     |   |   |                  |
|--|-----|---|---|------------------|
|  | 10  | ("3248590"   "3317778"   "3558963"   "3761758"   "3840767"   "3867665"   "3898504"   "4769576"   "5394059"   "5451838").PN.   | USPAT                                       | 2002/10/25 11:28 |
|  | 59  | ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)                     | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 13:23 |
|  | 59  | ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)                     | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:00 |
|  | 0   | ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halogen not halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)         | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 15:31 |
|  | 7   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and molar adj fraction  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 17:47 |
|  | 5   | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and PCA with ceramic  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 17:55 |
|  | 2   | ("5698948").PN.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/25 17:55 |
|  | 9   | alumina not ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)         | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:25 |
|  | 0   | PCA not alumina not ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:28 |
|  | 142 | lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)                                 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:28 |
|  | 70  | not alumina not ceramic and lamp and (mercury hg) and (sodium na) and (thallium tl) and halide and (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) and (rare adj earth lanthanoid)     | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:28 |
|  | 4   | not alumina not ceramic and lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:30 |
|  | 4   | lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) not alumina not ceramic     | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:51 |

|  |     |   |   |                  |
|--|-----|---|---|------------------|
|  | 70  | lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid cesium cs)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:51 |
|  | 9   | lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) and (cesium cs)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:57 |
|  | 5   | lamp and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) and (cesium cs)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 16:01 |
|  | 1   | lamp and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) same (cesium cs)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 15:55 |
|  | 3   | lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (rare adj earth lanthanoid) same (cesium cs)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 16:25 |
|  | 38  | lamp and (mercury hg) and (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hf lanthanum la) same (cesium cs)                         | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 16:34 |
|  | 35  | lamp and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hf lanthanum la) same (cesium cs)                        | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 18:45 |
|  | 696 | 313/\$ and quartz with ceramic  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 16:45 |
|  | 0   | lamp same (ceramic alumina) and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hf lanthanum la) same (cesium cs) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/26 16:53 |

|   |       |  |   |                  |
|---|-------|--|---|------------------|
| - | 11    | lamp and (ceramic alumina) and (mercury hg) same (sodium na) same (thallium tl) same halide same (magnesium mg beryllium be calcium ca strontium sr barium ba radium ra alkaline adj earth) same (cerium ce praseodymium pr neodymium nd promethium pm samarium sm europium eu gadolinium gd terbium tb dysprosium dy holmium ho erbium er thulium tm ytterbium yb lutetium lu hafnium hf lanthanum la) same (cesium cs) 313/\$ and lamp | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 16:59 |
| - | 13194 |  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 17:01 |
| - | 2253  | (313/\$ and lamp) and ceramic  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 17:01 |
| - | 202   | (313/\$ and lamp) and ceramic with (improve advantage advantageous improvement)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 17:01 |
| - | 2     | ("5698948").PN.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 19:09 |
| - | 1188  | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 18:50 |
| - | 2     | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and holmium with (improvement advantage advantageous improve)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 19:02 |
| - | 1     | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and calcium with halide with (improvement advantage advantageous improve)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/26 19:59 |
| - | 1     | ((313/486) or (313/487) or (313/636) or (313/640)).CCLS.) and power adj factor   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2003/06/18 12:59 |
| - | 33    | dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/27 19:54 |
| - | 28    | (dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2003/06/18 11:44 |
| - | 17    | ((dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp) and ceramic  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/27 19:54 |
| - | 14    | ((dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp) and ceramic) and (mercury hg)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB | 2002/10/27 19:54 |

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|---|-----|--|---|------------------|
| - | 0   | ((dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp) and ceramic) and (mercury hg)) and (sodium na) and (thullium tl) ("5212424").PN. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB | 2002/10/27 19:56 |
| - | 2   |  |   | 2002/10/27 19:58 |
| - | 30  | (dakin-james-t.in. leonard-james-a.in. mucklejohn-stuart-a.in. ormandlaky-gergely.in.) and lamp  |   | 2003/06/18 11:44 |
| - | 711 | ((313/486) or (313/487) or (313/640) or (313/641)).CCLS.   | USPAT; US-PGPUB   | 2003/06/18 13:11 |

|                |                     |  |                    |                  |
|----------------|---------------------|--|--------------------|------------------|
| -              | 711                 | (US-2223425-\$ or US-2216252-\$ or<br>US-2211590-\$ or US-2210780-\$ or<br>US-2207174-\$ or US-2181305-\$ or<br>US-2177755-\$ or US-2177728-\$ or<br>US-2177705-\$ or US-2176151-\$ or<br>US-2174449-\$ or US-2170066-\$ or<br>US-2152999-\$ or US-2151496-\$ or<br>US-2143077-\$ or US-2141905-\$ or<br>US-2132273-\$ or US-2116977-\$ or<br>US-2116678-\$ or US-2113973-\$ or<br>US-2109984-\$ or US-2103093-\$ or<br>US-2103085-\$ or US-2103053-\$ or<br>US-2103032-\$ or US-2091277-\$).did. or<br>(US-2059640-\$ or US-2056637-\$ or<br>US-2030805-\$ or US-2030402-\$ or<br>US-0907598-\$ or US-0865367-\$ or<br>US-2607014-\$ or US-2586304-\$ or<br>US-2563901-\$ or US-2563900-\$ or<br>US-2563474-\$ or US-2558532-\$ or<br>US-2534922-\$ or US-2533809-\$ or<br>US-2494883-\$ or US-2476681-\$ or<br>US-2452518-\$ or US-2450548-\$ or<br>US-2447210-\$ or US-2445692-\$ or<br>US-2424454-\$ or US-2419902-\$ or<br>US-2413940-\$ or US-2409769-\$ or<br>US-2392305-\$ or US-2386277-\$ or<br>US-2366270-\$).did. or (US-2357732-\$ or<br>US-2339178-\$ or US-2331306-\$ or<br>US-2316366-\$ or US-2310866-\$ or<br>US-2309676-\$ or US-2298581-\$ or<br>US-2297940-\$ or US-2297108-\$ or<br>US-2295040-\$ or US-2290186-\$ or<br>US-2272992-\$ or US-2269819-\$ or<br>US-2264892-\$ or US-2258472-\$ or<br>US-2255761-\$ or US-2244558-\$ or<br>US-2235802-\$ or US-2232780-\$ or<br>US-2227418-\$ or US-2223426-\$ or<br>US-3110556-\$ or US-3059133-\$ or<br>US-3054013-\$ or US-3043710-\$ or<br>US-3025423-\$ or US-3024383-\$).did. or<br>(US-3023340-\$ or US-3023339-\$ or<br>US-3018187-\$ or US-2966605-\$ or<br>US-2965786-\$ or US-2965785-\$ or<br>US-2962616-\$ or US-2961566-\$ or<br>US-2946909-\$ or US-2930934-\$ or<br>US-2919365-\$ or US-2915663-\$ or<br>US-2901647-\$ or US-2838705-\$ or<br>US-2806968-\$ or US-2785327-\$ or<br>US-2748303-\$ or US-2724070-\$ or<br>US-2721808-\$ or US-2709766-\$ or<br>US-2692349-\$ or US-2663823-\$ or<br>US-2637830-\$ or US-2622221-\$ or<br>US-3555336-\$ or US-3548238-\$ or<br>US-3547680-\$).did. or (US-3544481-\$ or<br>US-3539857-\$ or US-3530327-\$ or<br>US-3525864-\$ or US-3514659-\$ or<br>US-3513346-\$ or US-3480819-\$ or<br>US-3458747-\$ or US-3452238-\$ or<br>US-3435271-\$ or US-3431511-\$ or<br>US-3430090-\$ or US-3430089-\$ or<br>US-3424605-\$ or US-3416019-\$ or<br>US-3409792-\$ or US-3407325-\$ or<br>US-3400288-\$ or US-3384775-\$ or<br>US-3379916-\$ or US-3360675-\$ or<br>US-3360674-\$ or US-3360673-\$ or<br>US-3351796-\$ or US-3339101-\$ or<br>US-3339100-\$ or US-3334261-\$).did. or<br>(US-3331977-\$ or US-3328620-\$ or<br>US-3317778-\$ or US-3287586-\$ or<br>US-3274415-\$ or US-3255373-\$ or<br>US-3242369-\$ or US-3206632-\$ or<br>US-3153169-\$ or US-3141990-\$ or | USPAT;<br>US-PGPUB | 2003/06/18 13:09 |
| Search History | 6/19/03 13:21:54 PM | Page 17-\$ or<br>C:\APPSS\east\workspace\app\3090858251-\$.wsp US-3778662-\$ or<br>US-3778660-\$ or US-3771009-\$ or<br>US-3771000-\$ or US-3771000-\$ or  |                    |                  |



|   |   |   |   |                  |
|---|---|---|---|------------------|
| - | 1 | ((313/486) or (313/487) or (313/640) or (313/641)).CCLS.) and (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same (percent percentage "%")   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 13:29 |
| - | 7 | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same (percent percentage "%")   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 13:35 |
| - | 7 | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same (percent percentage "%") and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)            | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 13:38 |
| - | 3 | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same ratio same (percent percentage "%") and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 14:43 |
| - | 1 | 5698948.pn.   | USPAT; US-PGPUB; EPO; JPO; IBM_TDB          | 2003/06/18 13:46 |
| - | 0 | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same ratio same (percent percentage "%") and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:08 |

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|---|---------|---|---|------------------|
| - | 3       | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same ratio same (percent percentage "%") and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:14 |
| - | 6       | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and molar same ratio same (thallium tl) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)            | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:18 |
| - | 94      | (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:30 |
| - | 6       | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and molar same ratio same (thallium tl)        | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:24 |
| - | 1726845 | molar adj ratio with weight ratio   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:27 |
| - | 2037    | molar adj ratio with weight adj ratio   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:29 |

|   |   |  |   |                  |
|---|---|--|---|------------------|
| - | 5 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (rare adj earth lanthanoid) same molar adj ratio and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/18 15:32 |
| - | 4 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (rare adj earth lanthanoid) same molar adj ratio and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and color adj rendering adj index             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/18 15:33 |
| - | 4 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (rare adj earth lanthanoid) same molar adj ratio and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a") | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/18 15:34 |

|   |    |  |   |                  |
|---|----|--|---|------------------|
| - | 4  | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same molar adj ratio and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a") | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 15:53 |
| - | 26 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:55 |
| - | 3  | (( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")) and percent  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:09 |

|   |    |   |  |                  |
|---|----|---|--|------------------|
| - | 17 | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")) and (percent percentage "%")                                     | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/18 16:10 |
| - | 3  | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")) and (percent percentage "%") same (rare adj earth)               | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/19 10:11 |
| - | 2  | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")) and (percent percentage "%") same (rare adj earth) with (halide) | USPAT;<br>US-PPGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/18 16:11 |

|   |    |  |   |                  |
|---|----|--|---|------------------|
| - | 7  | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a")) and philips | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:19 |
| - | 0  | Philips and mastercolor and "dyI.sub.2"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:19 |
| - | 0  | Philips and "mastercolor.rtm" and "dyI.sub.2"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:20 |
| - | 2  | Philips and "mastercolor.rtm" and "DyI.sub.3"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:20 |
| - | 2  | Philips and "mastercolor" and "DyI.sub.3"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:21 |
| - | 16 | Philips and ("DyI.sub.3" "HoI.sub.3" and "TmI.sub.3")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:49 |
| - | 7  | Philips and ("DyI.sub.3" and "HoI.sub.3" and "TmI.sub.3")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:22 |
| - | 7  | Philips and ("DyI.sub.3" same "HoI.sub.3" same "TmI.sub.3")  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:24 |
| - | 2  | Philips and ("DyI.sub.3" same "HoI.sub.3" same "TmI.sub.3") and (mercury hg)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:27 |
| - | 0  | williams-joseph-1.xa. and "%".clm.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:28 |
| - | 23 | williams-joseph.xa. and "%".clm.   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 16:28 |

|   |    |  |   |                  |
|---|----|--|---|------------------|
| - | 2  | Philips and ("DyI.sub.3" "HoI.sub.3" and "TmI.sub.3") and mastercolor and color adj rendering adj index  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 09:59 |
| - | 18 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a") and (cesium cs) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 17:00 |
| - | 11 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a") and cesium same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)      | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 17:01 |
| - | 10 | ( (alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) same (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (rare adj earth lanthanoid) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (color adj rendering adj index "R.sub.a") and cesium with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at)      | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 17:11 |

|   |       |   |   |                  |
|---|-------|---|---|------------------|
| - | 20    | popov-oleg.in.  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/18 17:11 |
| - | 0     | philips and mastercolor same cesium   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 09:59 |
| - | 0     | 5212424.pn. and (cri color adj rendering adj index)   | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 10:08 |
| - | 4     | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (rare adj earth lanthanoid) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (mol molar) adj3 (fraction percent percentage "%") same (rare adj earth lanthanoid) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 10:16 |
| - | 63555 | "14"  | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 10:18 |
| - | 4     | (( alumina ceramic) and lamp.ti,ab. and mercury and (thallium Tl) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (sodium na) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (beryllium be magnesium mg calcium ca strontium sr barium ba radium ra) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) ) and (rare adj earth lanthanoid) with (halide halogen fluorine fluoride chlorine cl chloride bromine br bromide iodine iodide astatine astatide at) and (mol molar) adj3 (fraction percent percentage "%") same (rare adj earth lanthanoid) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2003/06/19 12:13 |